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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No. 012003-03

Confirmation No. 4798

Group Art Unit: 3644
Examiner: Jordan M. Lofdahl

PATENT

RESPONSE UNDER
37 CFR 1.116 --
EXPEDITED PROCEDURE --
Examining Group 3644

In re application of:
Ernest L. Baker et al.

Application No. 10/684,858
Filed: October 14, 2003

METHOD AND APPARATUS TO IMPROVE
PERFORATING EFFECTIVENESS USING A
UNIQUE MULTIPLE POINT INITIATED
SHAPED CHARGE PERFORATOR

Commissioner for Patents
P.O. Box 1450
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January 19, 2005

11/19/05 *Yale S Finkle*
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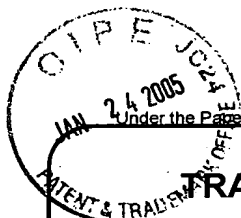
Dear Sir:

AMENDMENT AFTER FINAL REJECTION UNDER 37 CFR 1.116

In response to the Office Action mailed October 20,
2004, please amend the above-identified patent application as
set forth below.

Amendments to the Claims are reflected in the
listing of claims that begins on page 2 of this paper.

Remarks/Arguments begin on page 10 of this paper.



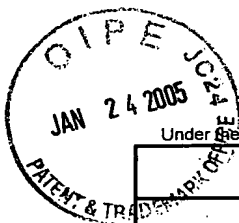
TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/684,858
	Filing Date	October 14, 2003
	First Named Inventor	Ernest L. Baker
	Art Unit	3644
	Examiner Name	Jordan M. Lofdahl
Total Number of Pages in This Submission	Attorney Docket Number	012003-03

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input checked="" type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input checked="" type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
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<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
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<input type="checkbox"/> Reply to Missing Parts/Incomplete Application	Remarks Patent Application Fee Determination Record	
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53		
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT		
Firm Name	Union Oil Co. of California	
Signature	<i>Yale S. Finkle</i>	
Printed name	Yale S. Finkle	
Date	January 19, 2005	Reg. No. 27,547

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:			
Signature	<i>Yale S. Finkle</i>		
Typed or printed name	Yale S. Finkle	Date	Jan. 19, 2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 10/684,858
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APPLICATION AS FILED – PART I			SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
(Column 1)	(Column 2)		RATE (\$)	FEE (\$)		RATE (\$)	FEE (\$)
FOR	NUMBER FILED	NUMBER EXTRA					
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A			N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X =		OR	X =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X =			X =	
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))			N/A			N/A	
			TOTAL			TOTAL	

* If the difference in column 1 is less than zero, enter "0" in column 2.

APPLICATION AS AMENDED – PART II						SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
(Column 1)	(Column 2)	(Column 3)				RATE (\$)	ADDITIONAL FEE (\$)		RATE (\$)	ADDITIONAL FEE (\$)
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA						
	Total (37 CFR 1.16(i))	*	Minus	**	=	X =		OR	X =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X =		OR	X =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					N/A		OR	N/A	
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA						
	Total (37 CFR 1.16(i))	* 33	Minus	** 36	= 0	X =		OR	X =	0
	Independent (37 CFR 1.16(h))	* 4	Minus	*** 5	= 0	X =		OR	X =	0
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					N/A		OR	N/A	
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	0

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

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